

BLACK GRAM

INTRODUCTION:

- short duration crop
- Excellent source of high quality protein (26%)
- It is consumed in the form of "Pulse".
- It is the main ingredient of papad, idli and dosa.
- Urad is one of the important pulse crops grown in all 3 seasons like Kharif, Rabi and summer and all over India.
- Being a leguminous crop, it has the ability to fix atmospheric nitrogen (35-40 kg/ha).
- It is also used as a nutritious feed, especially for milch animals.

1] Time of sowing-

- ❖ Kharif- onset of monsoon
- ❖ Summer (Where irrigation facility is available) - from second fortnight of February to March.

2] Seed rate –

Kharif: 6 to 7 kg per acre

Summer: 8 to 10 kg per acre

3] Spacing - 30 cm × 10 cm

4] Irrigation - 3 to 4 irrigations as per requirement in summer

5] Application of fertilizers (per acre):

| Fertilizers | Per acre |
|------------------|-------------|
| FYM | 12 t/acre |
| MYCORHIZA POWDER | 100 gm/acre |
| Urea [46-0-0] | 30 Kg |
| DAP OR SSP | 50 Kg |
| MOP | 40 Kg |
| MgSO4 | 10 Kg |

Company Name

Katra Fertilizers & Chemical Pvt Ltd
(An Ezzy Group Enterprises)

Corporate Office

1304, Marathon Icon, NextGen Campus,
Opp. Peninsula Corporate Park,
Lower Parel (West), Mumbai - 400013 India

Factory Address

Survey No. 90/2/1, Gram Mehraj,
Khandwa Road, Khargone,
Madhya Pradesh - 451001 India

6] Spray Schedule

| DAYS | GROWTH STAGES | TREATMENT | POTENTIAL DISEASE | POTENTIAL PEST |
|---------|------------------------------------|--|--|---|
| 10 – 15 | From sowing to plant establishment | Katra Nano NPK 19-19-19 @ 200 gm per acre + Katra nano micronutrient combi @ 50 g/acre + bell (fipronil 5 % sc) @ 400 ml/acre | Fusarium wilt, Root rot | white fly, aphid, green mosquito |
| 20 - 25 | Vegetative growth stage | Katra Nano Mono Ammonium Phosphate (12-61-0) @200 gm per acre + Flamingo (Emamectin Benzoate 3% Thiamethoxam 12% S G)@ 0.5 to 1 g/Lit of water + Fungus-G 1.5 gm/Lit of water kargill (Imidacloprid 30.5% SC)) 2 ml/litre of water + Katra Nano Capsule (Plant growth Promoter) @ 1 Caps/Acre | Root rot, rust dieback, downy mildew, | White fly, Green Mosquito, Green Mosquito Aphid, Bollworm |
| 35 - 40 | Flowering stage | Katra Nano NPK Potassium Phosphate 00-52-34 @200 gm per acre + Fugicin (Allicin 1.9 % SL) @ 100 ml/acre+ Katra Nano Capsule (Plant growth Promoter) @ 1 Caps/Acre + atal (Boron entanolamine B 10%) 100ml/acre | Powdery Mildew, Downy Mildew, Alternaria | Whitefly, Thrips, Green mole, Yellow mosaic, Bollworm |
| 50 -55 | Pod development / maturity stage | Katra Nano NPK Potassium Nitrate 13-00-45 @200 gm per acre + Neembin 1000 EC 1.7 ml/l of water + Virumin (Curcumin 1.9% SL) @ 100 ml/acre + calcium 11 % sc @ 100ml/acre | Cercospora, Powdery Mildew, Alternaria | Whitefly, champa, thrips, pod borer bollworm |

Note:- In the information given in the chart, the spray schedule has been given keeping in mind the possible disease and Pest outbreak. To know more contact Kisan4U Dr.

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White Fly



pod bug



Yellow mosaic



pod borer



Anthracnose



Powdery Mildew



Cercospora



Rust

9] Yield - 6 - 7 quintals/acre

KATRA[®]
FERTILIZERS

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